

November 6–10, 2017 Crowne Plaza London Heathrow • London, United Kingdom Course Schedule (As of October 9, 2017)

Monday, November 6: Liquid Into Products Safely

07:00-08:00	Registration	
08:00-08:15	Welcome and Course Introduction	
	Cast Shop Safety	
08:15-08:45	Includes molten metal hazards	Grandfield
	Customer's Products: Applications, Allows, Formats,	
08:45-09:45	& Downstream Processes	Grandfield
09:45-10:00	Break	
10:00-11:30	Cast Shop Economics	Grandfield
11:30-Noon	Metal Supply—Primary Smelter	Grandfield
Noon-13:00	Lunch (provided)	
	Metal Supply—Secondary: Melting, Furnaces, &	
13:00-15:00	Refractory Technology	Peterson
15:00-15:15	Break	
15:15–16:15	Dross Generation & Processing	Peterson
16:15-17:00	Group Work: Improvement Case Studies	

Tuesday, November 7: Preparing and Solidifying the Liquid

08:00-08:45	Trace Elements & Impurities: Sources & Effects	Grandfield
08:45-09:25	Furnace Fluxing & Alloying	Grandfield
09:25-09:45	Inclusion Sources & Measurement	Grandfield
09:45-10:00	Break	
10:00-11:00	Inclusion Removal	Grandfield
11:00-Noon	Degassing	Peterson
Noon-13:00	Lunch (provided)	
13:00-14:00	A Cast Microstructure	Eskin
14:00-15:00	Aluminum Solidification Fundamentals	Eskin
15:00-15:15	Break	
15:15-16:15	Grain Refinement—Theory	Eskin
16:15-17:00	Grain Refinement—Practice	Grandfield

Wednesday, November 8: DC Casting

08:00 - 09:00	DC Casting Heat Flow	Grün
09:00-09:45	DC Water Cooling & Water Systems	Grandfield
09:45-10:00	Break	
10:00-11:00	Billet Casting Mould Technology	Grandfield
11:00-Noon	DC Surface Defects	Grandfield
Noon-13:00	Lunch (provided)	
13:00-18:00	Tour and DC Casting Demonstration at Advanced	
	Metals Casting Centre (AMCC) at Brunel University	
	London (transportation provided)	

Thursday, November 9: Ingot and DC Casting

08:00-09:45	Sow and Chain Conveyor Ingot Casting	Grandfield
09:45-10:00	Break	
10:00-11:00	Heat Tearing Defects	Eskin
11:00-Noon	Macrosegregation in DC Casting	Eskin
Noon-13:00	Lunch (provided)	
13:00-14:00	Q&A: What's My Defect?	
14:00-15:00	Slab Cracking Defects	Eskin
15:00-15:15	Engineering Maintenance & Productivity	Grandfield
16:00-17:00	DC Casting Variants—HDC, EMC, Etc.	Grün

Friday, November 10: *More Slab & Homogenization*

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08:00-09:00	Rolling Slab Mould Technology	Håkonsen
09:00-09:45	Slab Casting—Shape Control	Håkonsen
09:45-10:00	Break	
	Homogenization: Principles, Practice, Problem, and	
10:00-Noon	Productivity	Eskin
10:00–Noon Noon–12:15	Productivity Graduation Ceremony and Wrap-Up Discussion	Eskin
		Eskin
Noon-12:15	Graduation Ceremony and Wrap-Up Discussion	Eskin